

$$4y^2 - 9y + 2 = 0$$

$$a = 4$$

$$b = -9$$

$$y = \frac{9 \pm \sqrt{81 - 4 \cdot 4 \cdot 2}}{8}$$

$$c = 2$$

$$(3, 2)$$

$$(3, \frac{1}{4})$$

$$y = \frac{9 \pm \sqrt{49}}{8}$$

$$\frac{9+7}{8} = 2$$

$$\frac{9-7}{8} = \frac{1}{4}$$

$$\frac{dy}{dx} = \frac{3y-2x}{8y-3x} \rightarrow = 0$$

$$3y-2x=0$$

$$3y-6=0$$

$$y=2$$

at  $x=3$   
 $(3, 2)$

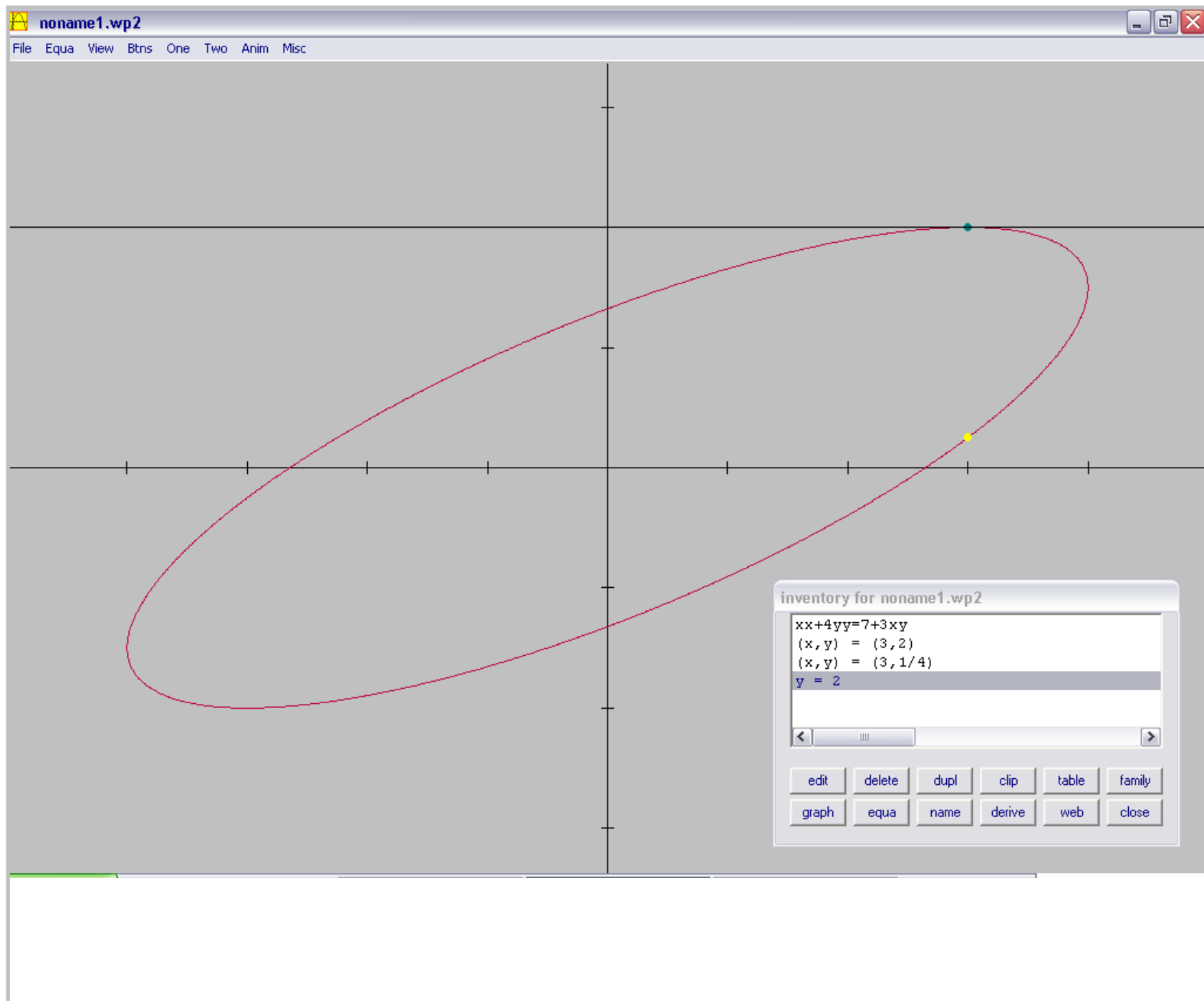
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Equation of Tangent

$$y = x^2$$

$$\text{at } x = -2 \quad y = 4$$

$$\frac{dy}{dx} = 2x$$

$$y = mx + b$$

$$m = -4$$

↖ slope of tangent line